ROUTING AND RECORD SHEET

SUBJECT: (Optional)
Secure Equipment Acquisition Policy (SEAP) - NSA Visit

STAT FROM:
Chief,
Procurement Management Staff/OL

EXTENSION

NO.

DATE
29 OCT 1981

TO: (Officer designation, room number, and building)	DATE RECEIVED	DATE FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
1. ALL MEMBERS SEAP TASK FORCE				
STAT C/L+P+D				
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FORM 1-79 610 USE PREVIOUS EDITIONS

29 OCT 1981

MEMORANDUM FOR THE RECORD

FROM: A. T. Chason
Chief, Procurement Management Staff
Office of Logistics

SUBJECT: Secure Equipment Acquisition Policy (SEAP) -
NSA Visit

1. On 27 October 1981, the undersigned, along with [redacted], STAT
and two senior procurement officers from NSA [redacted] is the Deputy Director/DOD Computer Security Center. The meeting opened by the undersigned explaining to [redacted] STAT and the other NSA representatives what our Task Force is about, i.e., attempting to evaluate the threat posed by acquisition of foreign manufactured automated data processing equipment (ADPE) and the ultimate establishment of a policy for CIA in this area. [redacted] STAT

2. Some of the points that [redacted] made were the STAT following:

a. First and foremost, NSA does not differentiate between foreign manufactured equipment versus domestic equipment. They have concluded that any equipment can be bugged and that it is impossible to discover the implanted device. Having made this assumption, their main tactic is on preventing removal of data from the machine and from the premises. This is done through conventional security methods.

b. The NSA attitude on software is pretty much along the same line as for hardware, i.e., that software is maintained and controlled within a secure environment.

c. The area of remote diagnostics, which is in the forefront of current technological changes, is one which Schell considered fertile ground for compromise of our ADPE systems. In all cases he believes that good security policy dictates against use of remote diagnostics.

d. Maintenance and service personnel are cleared and polygraphed before they are allowed to service equipment in the NSA complex.

25X1

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SUBJECT: Secure Equipment Acquisition Policy (SEAP) - NSA Visit

e. [redacted] noted that printed circuit boards are not sent back to the manufacturer for repair. [redacted] STAT STAT

3. During the interchange with the NSA representatives, the question was asked as to whether there actually is any foreign manufactured ADPE in the NSA Computer Center. The response was that the Center is pretty much all IBM. When asked about Amdahl, the procurement members mentioned that they thought there might be some Amdahl equipment in-house. [redacted] STAT

4. Distributed with this memorandum are copies of a speech made by Admiral Inman in a keynote kick-off address of the Center on 1 January of this year and an address by Lt. General Faurer made at the IEEE Computer Conference in September. Also distributed is a draft paper prepared by [redacted] Our next regular STAT meeting is still scheduled for Tuesday, 3 November at 10:15 in 25X1 Room 3G06, [redacted] At this meeting it is my hope that we can agree upon a course of action to wrap up our Task Force effort. [redacted] STAT

[redacted] STAT

Attachments:
A - Speech by Admiral Inman
B - Speech by Lt. Gen. Faurer
C - Draft by [redacted] STAT
25X1 Subj: [redacted] Secure Acquisition of Agency ADP Systems

NATIONAL SECURITY AGENCY
FORT GEORGE G. MEADE, MARYLAND 20755

21 OCT 1981

[redacted] STAT
Chief Procurement Management
Office of Logistics
[redacted] STAT
CIA
Washington, DC 20505

Dear [redacted]: STAT

Thank you for your recent interest in the Computer Security Center. In order to provide you more information about the Center, I am enclosing a copy of an address given by the Director of the National Security Agency at a recent computer conference and also a copy of the speech Admiral Inman gave at the National Bureau of Standards in August 1981.

If you have future questions about the Center, please feel free to contact me.

Sincerely,

[redacted] STAT

Deputy Director
DoD Computer Security Center

Encl:
a/s

KEYNOTE ADDRESS

COMPUTER SECURITY INITIATIVE

August 10, 1981

It is a pleasure to welcome you to this Seminar and to speak briefly with you about computer security, the recent developments within the Department of Defense and the Intelligence Community and the challenges that lie ahead.

As Dr. Gerald P. Dinneen, former Assistant Secretary of Defense for C^3I defined at the first of these Seminars two years ago, a "trusted" computer system is one with sufficient hardware and software integrity to allow its use for the simultaneous processing of multiple levels of classified or sensitive information.

The need for trusted computer systems is very real and growing rapidly. Factors influencing this need are:

- the growing use of automated information handling systems throughout the DoD and the Intelligence Community and in particular the linking of these systems into major networks;
- increasing requirements for controlling access to compartmented and sensitive information;
- the requirement for broader dissemination of information both within and beyond the community;
- growing difficulties with obtaining required numbers of cleared personnel, both military and civilian.

Despite continuing internal efforts to develop special purpose trusted systems for unique needs, we already rely very heavily on the products of the computer industry to meet our information processing requirements, and this

dependence will continue to grow significantly in the future. It is therefore very gratifying to observe the progress being made by the computer industry in applying computer security technology as represented by the industry presentations at this and the previous Seminars.

It is very important, also, that the Department of Defense and the Intelligence Community develop sufficient expertise to be able to evaluate the integrity of computer software and systems developed by industry and government, and that we be able to determine suitable physical and administrative environments for their application. We have had scattered efforts over the past several years to evaluate specfic systems for specific installations. But these efforts have always been more or less ad hoc, and because of the extensive technical background required, expensive to carry out.

I am very pleased therefore to announce today the establishment of a Computer Security Technical Evaluation Center for the Department of Defense and the Intelligence Community at the National Security Agency. Last fall, as Director of NSA, I enthusiastically endorsed the establishment of this Center at NSA as a new and separate function. I am very pleased with the progress being made in setting up the Center and I remain strongly committed to its success.

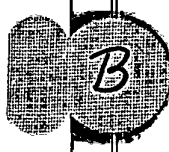
I would like to make several observations about the Center and some of its relationships:

- Because the private sector computer manufacturing community is the primary source of ADP systems, the Center's role will be to work with the manufacturers, deriving as much system integrity as possible from industry developed systems. This is a rather sharp contrast to the NSA's more traditional communications security role where the government has the dominant technical role.

- The Center will have a difficult task developing procedures which assure protection of sensitive portions of a system which the government does not own. Simply classifying security related portions of a system built by industry won't work since the government represents such a small portion of the overall market that the manufacturers may well decide not to sell to the government rather than accepting the limitations imposed by classification. This, in the end, might lead to a highly undesirable situation where private sector users (e.g., banks, insurance companies) have higher integrity systems than the government.
- But sensitive portions of systems and the known vulnerabilities that remain must be protected, in the interests of both the government and the manufacturers. It is quite likely therefore that the most sensitive portions of the government's analyses will be both classified and proprietary to the manufacturer. Careful, reasoned interaction between the government and industry will be needed to work out suitable working relationships.
- The Center will act in the interests and for the benefit of the Department of Defense and the Intelligence Community. Its evaluations will not be intended for use by other than the DoD. It will not make general product endorsements. But as with the Qualified Product List procedures (as prescribed in the DoD Defense Acquisition Regulations), the relative merit of a system in the hierarchy of evaluated products may be available publicly in order to provide incentive and encouragement for manufacturers to develop trusted systems and private sector users to employ them.

Agencies are being encouraged to establish or enhance their own technical security test and evaluation capabilities to ensure widespread use and availability of trusted computer systems. The computer manufacturing community must work closely with the Center and these Service organizations to ensure that reasonable products are available for use in sensitive applications.

In conclusion, I would like to restate my awareness of the importance of this problem area, my enthusiasm for the establishment of the Evaluation Center, and my deep and continuing interest in its success. I encourage you to participate fully in this Seminar, ask the tough questions, learn all you can, and then go out and apply what you have learned so that we may all have trustworthy computers in the very near future.



Declassified in Part - Sanitized Copy Approved for Release 2013/09/11 : CIA-RDP91-00280R000100130030-6

ADDRESS BY LTG LINCOLN D. FAURER, DIRECTOR NSA AT IEEE COMPUTER CONFERENCE 81 WASHINGTON, D.C. 15 SEPTEMBER 1981

DOD COMPUTER SECURITY -- A NEW INITIATIVE

ADDRESS BY LTG LINCOLN D. FAURER, DIRECTOR NSA

AT IEEE COMPUTER CONFERENCE 81, WASHINGTON, D.C.

15 SEPTEMBER 1981

I WANT TO START OFF BY EXPRESSING MY THANKS TO DR. MILLS AND IEEE OFFICIALS FOR THE OPPORTUNITY TO COME HERE THIS MORNING AND TELL YOU ABOUT THE NEW DEPARTMENT OF DEFENSE COMPUTER SECURITY CENTER. I SAY "NEW" BECAUSE THE ASSIGNMENT OF THIS JOB TO MY AGENCY IS VERY RECENT. BUT IN POINT-OF-FACT, WE HAVE BEEN INVOLVED IN WORK IN THIS AREA FOR A NUMBER OF YEARS, IN SUPPORT OF OUR INTERNAL COMPUTER PROCESSING ACTIVITIES AND IN SUPPORT OF DEFENSE COMMUNICATIONS SYSTEMS ACQUISITION EFFORTS, SUCH AS THE PACKET-SWITCHED NETWORK, AUTODIN II.

FIRST, A BIT OF BACKGROUND. AS MANY OF YOU IN THIS CONFERENCE KNOW, CONCERN HAS GROWN IN RECENT YEARS ABOUT THE PROBLEM OF MAINTAINING THE SECURITY OF INFORMATION IN AN INCREASINGLY AUTOMATED COMMERCIAL AND FEDERAL WORLD. LAST YEAR, MY PREDECESSOR, ADMIRAL INMAN, NOW DEPUTY DIRECTOR OF THE CIA, WORKING WITH THE OFFICE OF THE SECRETARY OF DEFENSE EXAMINED THE NEED FOR A TECHNICAL CENTER TO SUPPORT THE MILITARY AND DEFENSE AGENCIES. THIS LED TO A LETTER ON THE FIRST OF JANUARY THIS YEAR FROM THE DEPUTY SECRETARY OF DEFENSE WHICH DIRECTED NSA TO ESTABLISH A CENTER FOR COMPUTER SECURITY EVALUATION. SINCE THEN WE HAVE BEEN BUSY CONSOLIDATING THE INTERNAL COMPUTER SECURITY ACTIVITIES OF NSA AND DEVELOPING THE RESOURCE REQUIREMENTS TO SUPPORT THE CENTER. THIS ORGANIZATION WAS FORMALLY ESTABLISHED WITHIN MY AGENCY IN JULY.

THIS MORNING, I WOULD LIKE TO TALK WITH YOU ABOUT THE NEEDS FOR IMPROVEMENTS IN COMPUTER SECURITY AND ALSO THE OTHER CHALLENGES WE WILL FACE. BUT MOST IMPORTANTLY--WHAT IT IS THIS CENTER WILL, AND WILL NOT DO. I SHOULD ALSO LIKE TO TAKE THIS OPPORTUNITY TO CLEAR UP ANY MISUNDERSTANDINGS ABOUT THE WAY WE WILL CONDUCT COMPUTER SECURITY ACTIVITIES AT NSA. I HAVE HEARD SOME ANXIETIES EXPRESSED BY INDUSTRY AND BY OTHERS AND I WOULD LIKE TO CLARIFY OUR INTENTIONS AS MUCH AS POSSIBLE.

AS I HAVE INTIMATED, THE CONCERN WITHIN DEFENSE ABOUT COMPUTER SECURITY IS A VERY GENUINE ONE. WE LIVE IN A FAST-PACED AND TECHNOLOGY INTENSIVE WORLD. FOR THE MILITARY SERVICES AND THE OTHER DEFENSE AGENCIES, THE PROBLEM WE FACE IS AN EXPLOSION OF INFORMATION, CLASSIFIED AT VARIOUS LEVELS OF DIFFERING SENSITIVITIES. OUR WORLD IS FILLED WITH AUTOMATIC DATA PROCESSING EQUIPMENT, GEOGRAPHICALLY DISPERSED AND OFTEN NETWORKED

TOGETHER. THE THREAT TO SECURITY RANGES FROM THE INADVERTENT DUMP OF MATERIAL TO A NONAUTHORIZED RECIPIENT ALL THE WAY TO DELIBERATE PENETRATION.

I DON'T MEAN TO IMPLY THAT INDIVIDUAL DEFENSE AGENCIES AND SERVICES HAVEN'T RECOGNIZED OR TRIED TO TACKLE THE PROBLEM. FOR EXAMPLE, WE HAVE TRIED TO DEAL WITH THE PROBLEM BY USING TIGER TEAMS TO DELIBERATELY PENETRATE OUR SYSTEMS. THEY ALMOST ALWAYS SUCCEED IN ATTAINING ACCESS, SOMETIMES USING SUCH SOPHISTICATED EFFORTS THAT THEY LEAVE NO TRACE OF THE ATTEMPT TO PENETRATE THE SYSTEM. SUCH EFFORTS WERE USUALLY FOLLOWED BY TECHNICAL EFFORTS TO CORRECT WEAKNESSES. UNFORTUNATELY THIS TYPE OF CORRECTIVE EFFORT WAS GENERALLY UNSUCCESSFUL AND UNREWARDING. FURTHERMORE, THE CORRECTIVE EFFORTS OFTEN SERIOUSLY DEGRADED PERFORMANCE. THE AIR FORCE TOOK THE LEAD ON A MORE SUCCESSFUL PROGRAM INVOLVING SECURITY KERNEL TECHNOLOGY. THE MOST SUCCESSFUL EFFORT WAS THE SECURITY-ENHANCED MULTICS SYSTEM THAT HAS BEEN RUNNING FOR SEVERAL YEARS IN THE PENTAGON.

A SIGNIFICANT AMOUNT OF TECHNOLOGY IS NOW AVAILABLE, BUT IT IS DIFFICULT FOR INDIVIDUAL USERS TO UNDERSTAND WHAT IT IS AND IS NOT CAPABLE OF ACHIEVING. A TECHNICAL ORGANIZATION TO RESPOND TO THE PROBLEMS OF THE INDIVIDUAL DOD AGENCIES SEEMS CALLED FOR.

- THERE ARE CLEAR REQUIREMENTS FOR SUPPORT TO SUCH ORGANIZATIONS IN THE NATIONAL SECURITY ESTABLISHMENT FOR EVALUATION OF NEW TECHNOLOGY.

- THERE ARE REQUIREMENTS FOR SYSTEMATIC CERTIFICATION AND ACCREDITATION OF SYSTEMS TO BE OPERATED IN A VARIETY OF ENVIRONMENTS.

- THERE IS A NEED FOR BASIC RESEARCH AND DEVELOPMENT TO BE CONSIDERABLY ACCELERATED.

ONE MIGHT ASK--WHY CHOOSE NSA FOR THE CENTER. I THINK THERE ARE SOME STRAIGHTFORWARD ANSWERS.

- WE ARE A LARGE AND VERY TECHNICAL ORGANIZATION.

- WE HAVE A LARGE WORK FORCE OF SCIENTIFIC AND OTHER PROFESSIONAL TALENTS THAT PROVIDE THE CRITICAL MASS FROM WHICH TO DRAW THE CORE OF MANPOWER NECESSARY TO FORM THE CENTER. WE CAN TAKE CONSIDERABLE ADVANTAGE OF OUR WORK IN RELATED AREAS.

- ALTHOUGH COMPUTER SECURITY SUPPORT IS A DISTINCT AND INDEPENDENT FUNCTION, THE NEED TO EXPLOIT ADVANCED TECHNOLOGY CLOSELY PARALLELS THE RESPONSIBILITY OF NSA TO OUR NATIONAL GOVERNMENT FOR THE SECURITY OF ITS COMMUNICATIONS.

AN INITIATIVE IN COMPUTER SECURITY IS NOT WITHOUT ITS PROBLEMS AND ITS CHALLENGES. THE MAJORITY OF COMPUTER SYSTEMS IN USE SIMPLY DO NOT HAVE SECURITY OF DATA AS THEIR PRIMARY OBJECTIVE. USERS ARE MOST INTERESTED IN PERFORMANCE, RELIABILITY, EASE OF USE, AND ACCESSIBILITY--AS THEY SHOULD BE. CONTEMPORARY COMPUTER SYSTEMS SIMPLY DO NOT PROVIDE RELIABLE PROTECTION OF THEIR DATA, AND CONTEMPORARY SYSTEMS ARE OFTEN DISTRIBUTED, WITH SECURITY PROBLEMS COMPOUNDED BY REMOTED TERMINAL OR NETWORK CONSIDERATIONS. DESPITE THE PROGRESS THAT HAS BEEN MADE, THERE IS A MAJOR SHORTAGE OF GOOD COMPUTER SECURITY TECHNOLOGY. INDUSTRY LEADERS HAVE TOLD US THAT THIS SITUATION WILL CONTINUE, IN THE ABSENCE OF A CERTAIN COMMERCIAL MARKET WILLING TO PAY FOR SUCH PRODUCTS. WE ALSO OBSERVE THAT SUCH TECHNOLOGY AS DOES EXIST DOES NOT ENJOY WIDESPREAD USE. THERE ARE MANY REASONS FOR THIS; IGNORANCE OF THE ATTRIBUTES OF THE PRODUCT, PERFORMANCE DEGRADATION THAT IS UNACCEPTABLE, OR COST.

MANAGEMENT AWARENESS OF THE PROBLEM ACROSS THE DEPARTMENT OF DEFENSE NEEDS CONSIDERABLE BOLSTERING. THIS IS NOT AN EASY MATTER! COMPUTER SECURITY ASPECTS OF COMPUTER OPERATIONS ARE VIEWED BY MOST AS A BLACK ART, AND MOST OFFICIALS CAN HARDLY BE BLAMED FOR SIMPLY SETTLING FOR ASSURANCES THAT THEY ARE IN COMPLIANCE WITH COMPUTER SECURITY REGULATIONS. I MUST CONFESS THAT AN INFORMED VIEW IS THAT THE CREATION OF POLICY AND REGULATION ON THIS ISSUE HAVE, IN A SENSE, BEEN GEARED TO THE TECHNOLOGY AVAILABLE TO SUPPORT IT. AS ONE OF OUR SENIOR PROFESSIONALS OBSERVED IN AN ARTICLE SEVERAL YEARS AGO, "A COMPUTER MAY WELL SATISFY ALL REGULATIONS AND STILL BE HIGHLY VULNERABLE."

BUT AS I HAVE ALLUDED TO EARLIER, PERHAPS THE BIGGEST CHALLENGE WE FACE IS THE ENORMOUS RELIANCE WE MUST PLACE ON INDUSTRY. COMPUTER SECURITY FEATURES ARE NECESSARILY PRODUCT-PECULIAR AND WE MUST FIND WAYS TO WORK CLOSELY WITH INDUSTRY TO HELP PRODUCE TRUSTED COMPUTER SYSTEMS. CLEARLY, IF I AM CORRECT IN MY ASSERTION THAT THERE IS A DISTINCT SHORTAGE OF RELIABLE SECURITY FEATURES, AND THAT THE BULK OF THE PRODUCTS WILL HAVE TO BE COMMERCIALLY PRODUCED, THEN WE WILL OWE IT TO OUR DOD CUSTOMERS TO KEEP THE PRESSURE ON INDUSTRY TO PRODUCE. THAT PRESSURE WILL NEED TO BE SUSTAINED UNTIL MARKET AWARENESS IS GENERATED AND SECURITY OF INFORMATION, AND OF COMPUTER PROCESSES THEMSELVES, BECOME A MAJOR DESIGN GOAL FOR NEW COMMERCIAL SYSTEMS UNDER DEVELOPMENT BY THE MAJOR VENDORS.

NOW I WOULD LIKE TO TELL YOU ABOUT THE SPECIFIC THINGS THE COMPUTER SECURITY CENTER WILL DO. THESE FALL INTO FOUR AREAS: RESEARCH AND DEVELOPMENT, ASSISTANCE IN THE ACQUISITION OF DOD COMPUTER SYSTEMS, DISSEMINATION OF COMPUTER SECURITY INFORMATION, AND EVALUATION OF COMMERCIAL COMPUTER SECURITY PRODUCTS.

FIRST LET ME ADDRESS OUR CONDUCT AND SUPPORT OF RESEARCH AND DEVELOPMENT (R&D). AS I NOTED BEFORE, THE ABSENCE OF

TECHNOLOGY IS A MAJOR PROBLEM. I BELIEVE WE NEED AN ACTIVE, WELL-FORMED R&D PROGRAM. THIS WORK MUST, OF COURSE, BE TECHNICALLY SOUND; BUT, IN ADDITION, IT MUST BE CLEARLY FOCUSED ON TECHNOLOGY GAPS WHERE, IF SUCCESSFUL, THE RESEARCH WILL HAVE A SIGNIFICANT PAY-OFF IN TERMS OF DOD COMPUTER SECURITY. BOTH THE IN-HOUSE WORK AND THE SPONSORED RESEARCH IN INDUSTRY AND UNIVERSITIES WILL BE PART OF A COHESIVE PROGRAM WITH SEVERAL FACETS.

- WE WILL EXPLORE THE IMPLICATIONS OF SECURITY ON HARDWARE AND SOFTWARE ARCHITECTURES FOR VARIOUS COMPUTER COMPONENTS SUCH AS DATA BASE SYSTEMS AND MICROPROCESSORS.

- WE WILL LOOK FOR MORE EFFECTIVE WAYS TO PROVIDE SECURITY IN NETWORKS, ADDRESSING ISSUES SUCH AS COMMUNICATIONS PROTOCOLS AND END-TO-END ENCRYPTION.

- WE WILL SPECIFICALLY WORK ON VERIFICATION TOOLS TO ASSIST US IN EVALUATING WHETHER THE SECURITY FEATURES OF COMPUTER AND NETWORK SYSTEMS ARE TRULY EFFECTIVE.

- A SIGNIFICANT THRUST WILL BE DIRECTED TOWARDS APPLYING THE EMERGING RESEARCH RESULTS TO REPRESENTATIVE PROBLEMS WHERE THE CRITICAL ISSUES OF PERFORMANCE AND FUNCTIONALITY CAN BE ASSESSED.

THESE DEVELOPMENTS WILL BE SELECTED TO PROVOKE THE ASSIMILATION OF THE TECHNOLOGY INTO INDUSTRY PRODUCTS. THE RECENTLY ANNOUNCED HONEYWELL SECURE COMMUNICATION PROCESSOR IN THEIR LEVEL 6 MINICOMPUTER PRODUCT LINE SERVES AS AN EXAMPLE OF THIS PROCESS: THIS PRODUCT WAS BASED DIRECTLY ON PREVIOUS DOD SPONSORED RESEARCH THAT PRODUCED THE SECURITY KERNEL TECHNOLOGY.

AND I WOULD POINT OUT ANOTHER IMPORTANT CHARACTERISTIC OF OUR R&D: WE ARE COMMITTED TO HAVING THE RESEARCH DONE AND THE RESULTS DISSEMINATED IN AN OPEN AND UNCLASSIFIED MANNER, EXCEPT IN THOSE EXCEPTIONAL CASES WHERE WE ARE WORKING ON A PREVIOUSLY CLASSIFIED BASE. OUR MOTIVATION SHOULD BE CLEAR--THE TRANSFER OF THE TECHNOLOGY INTO COMPUTER SECURITY PRODUCTS THAT DOD CAN, IN TURN, PURCHASE IS GREALY RESTRICTED IF THE RESEARCH RESULTS ARE CLASSIFIED OR OTHERWISE RESTRICTED. IN SHORT, I EXPECT OUR R&D TO BE OPENLY AVAILABLE, SIGNIFICANT IN ITS RESULTS, COMPLEMENTARY TO THE WORK OF OTHERS, AND RELEVANT TO DOD AND THE OTHER ORGANIZATIONS OF THE NATIONAL SECURITY ESTABLISHMENT.

OUR SECOND MAJOR TASK IN THE CENTER IS ASSISTING THE DOD ELEMENTS IN THE ACQUISITION AND TESTING OF TRUSTED SYSTEMS. THE BEST TECHNOLOGY IN THE WORLD IS OF LITTLE VALUE UNTIL WE HAVE PUT IT INTO OPERATION.

- AS A STARTING POINT, THE SPECIFICATIONS FOR THE ACQUISITION OF A NEW SYSTEM MUST CLEARLY STATE WHAT COMPUTER SECURITY CAPABILITIES ARE REQUIRED. IN THE PAST, REQUIREMENTS HAVE NOT ALWAYS BEEN CLEARLY AND CONSISTENTLY SPECIFIED. TO HELP REDRESS THIS PROBLEM, THE CENTER WILL DEVELOP A SET OF SECURITY STANDARDS AND CORRESPONDING INPUTS FOR USE IN PROCUREMENT SPECIFICATIONS. THESE WILL EVOLVE AND GROW AS THE TECHNOLOGY ADVANCES SO THAT DOD CAN TAKE FULL ADVANTAGE OF THE ALTERNATIVES AVAILABLE. FRANKLY, OUR INTENTION IS TO SIGNIFICANTLY REWARD THOSE DOD SUPPLIERS WHO PRODUCE THE COMPUTER SECURITY PRODUCTS THAT WE NEED.

- BEFORE A DOD ELEMENT CAN OPERATE A TRUSTED SYSTEM, REGULATIONS REQUIRE A CERTIFICATION AND ACCREDITATION PROCESS. THIS PROCESS PROVIDES THE BASIS FOR A JUDGMENT BY THE APPROPRIATE APPROVING AUTHORITY THAT THE SYSTEM SHOULD ACTUALLY BE TRUSTED FOR THE SIMULTANEOUS PROCESSING OF MULTIPLE LEVELS OF CLASSIFIED OR SENSITIVE INFORMATION. AGAIN, THE CENTER WILL PROVIDE AN EVOLVING SET OF TECHNICAL STANDARDS AND CRITERIA TO AID IN MAKING THESE JUDGMENTS.

- FOR SELECTED SYSTEMS OF PARTICULAR IMPORTANCE TO DOD, THE CENTER WILL DIRECTLY PARTICIPATE IN THIS ACQUISITION PROCESS. THIS WILL BE IN THE FORM OF TECHNICAL SUPPORT, TAILORED TO THE UNIQUE PROBLEMS OF A PARTICULAR SYSTEM.

IT SHOULD BE CLEAR THAT I EXPECT THE CENTER TO HAVE MAJOR, POSITIVE INFLUENCE ON THE SECURITY OF THE COMPUTER SYSTEMS THAT ARE BROUGHT INTO THE DOD INVENTORY. SHOULD SOME SUPPLIER CHOOSE NOT TO KEEP UP, THEY CAN EXPECT TO BE LEFT BEHIND. TO ACHIEVE THIS IMPACT, A LOT OF INFORMATION MUST BE EXCHANGED. THUS, A THIRD CENTER FUNCTION IS PROVIDING COMPUTER SECURITY DATA CENTER SERVICES.

- WE WILL PROVIDE A CONSOLIDATED SET OF INFORMATION ON THE VARIOUS COMPUTER SECURITY PRODUCTS THAT EXIST IN THE COMMERCIAL AND GOVERNMENT SECTORS, AS A SERVICE TO OUR CUSTOMERS.

- WE WILL ACTIVELY PARTICIPATE IN FOSTERING AN INCREASING AWARENESS OF COMPUTER SECURITY PROBLEMS AND SOLUTIONS. FOR DOD PERSONNEL WE WILL ASSIST IN IDENTIFYING WORTHWHILE OPPORTUNITIES FOR COMPUTER SECURITY EDUCATION, TRAINING, SEMINARS, AND WORKSHOPS: WE WILL ORGANIZE AND CONDUCT SUCH ACTIVITIES OURSELVES WHERE NEEDED. FURTHERMORE, WE EXPECT TO BE ACTIVE IN PUBLIC FORUMS--SUCH AS THIS IEEE CONFERENCE--TO KEEP YOU IN THE COMPUTER INDUSTRY INFORMED ON OUR ACTIVITIES AND, OF COURSE, TO LEARN ABOUT WHAT YOU ARE DOING.

- WE WILL OBVIOUSLY PROVIDE A REPOSITORY FOR THE VARIOUS STANDARDS AND CRITERIA DEVELOPED BY THE CENTER FOR USE WITHIN DOD.

THE EFFECTIVE EXCHANGE OF INFORMATION ON COMPUTER SECURITY IS TOO IMPORTANT TO BE LEFT TO CHANCE. THEREFORE, THE CENTER WILL MAKE IT ITS BUSINESS TO STIMULATE AND FACILITATE THIS EXCHANGE.

THE FINAL FUNCTION I WANT TO TALK ABOUT IS THE EVALUATION OF COMMERCIAL COMPUTER SECURITY PRODUCTS. LET ME FIRST DISTINGUISH THIS FROM THE CENTER'S ASSISTANCE TO COMPUTER SYSTEMS ACQUISITION. THE ACQUISITION SUPPORT THAT I DESCRIBED EARLIER IS BASED ON THE UNIQUE ENVIRONMENT OF EACH DOD APPLICATION, AND ULTIMATELY SECURITY IS ADDRESSED ON A TOTAL SYSTEM BASIS THAT INCLUDES A WIDE RANGE OF FACTORS SUCH AS PHYSICAL, PERSONNEL, PROCEDURAL, TEMPEST AND COMMUNICATIONS SECURITY.

HOWEVER, WE FREQUENTLY FIND THAT A GIVEN VENDOR'S HARDWARE/SOFTWARE PRODUCT WILL SHOW UP IN A NUMBER OF DIVERSE DOD APPLICATIONS. THEREFORE, IT IS EXTREMELY VALUABLE TO HAVE A CAREFUL EVALUATION OF THE TECHNICAL MERIT OF THE PRODUCT ITSELF. THIS IS PARTICULARLY USEFUL WHEN SELECTING THE WINNER IN A COMPETITIVE PROCUREMENT, SINCE IT MAY BE IMPRACTICAL TO DO THE NECESSARY DETAILED EVALUATION FOR EVERY OFFEROR FOR EACH PROCUREMENT. THUS, WE CONTEMPLATE THE EVALUATION OF COMMERCIAL PRODUCTS AGAINST AN OBJECTIVE SET OF CRITERIA, INDEPENDENT OF ANY SPECIFIC DOD APPLICATION.

THIS EVALUATION OBVIOUSLY CAN ONLY BE BASED ON THE INFORMATION THAT IS AVAILABLE TO THE CENTER. THEREFORE, I WOULD EMPHASIZE THAT IN MOST CASES FOR A PRODUCT TO HAVE A POSITIVE EVALUATION RESULT, WE WILL NEED TO WORK COOPERATIVELY WITH THE MANUFACTURER. AS A MATTER OF FACT, THE OFFICE OF THE SECRETARY OF DEFENSE HAS ALREADY INITIATED A NUMBER OF SUCH COOPERATIVE EVALUATION EFFORTS, AND WE EXPECT TO CONTINUE AND EXPAND THESE EFFORTS UNDER THE AUSPICES OF THE CENTER.

- THE RESULT WILL BE AN EVALUATED PRODUCTS LIST FOR USE WITHIN THE NATIONAL SECURITY ESTABLISHMENT. THIS WILL BE BASED ON CRITERIA FOR DISTINCT LEVELS, OR "FIGURES OF MERIT."

- THIS EVALUATION WILL BE DONE ON AN OPEN BASIS. THE COOPERATING MANUFACTURER WILL BE PROVIDED THE RESULTS OF THE EVALUATION AND THE SUPPORTING RATIONALE. FURTHERMORE, THE FIGURE OF MERIT AND, AS APPROPRIATE, SUPPLEMENTAL COMMENTS WILL BE PUBLICLY AVAILABLE.

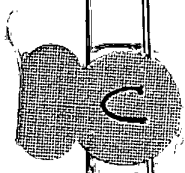
- HOWEVER, THE CENTER WILL RIGOROUSLY RESPECT THE CONFIDENTIALITY OF INFORMATION THAT IS SPECIFICALLY IDENTIFIED AS PROPRIETARY WHEN IT IS PROVIDED BY THE MANUFACTURER. FURTHERMORE, SPECIFIC VULNERABILITIES THAT ARE IDENTIFIED BY THE CENTER WITH THE MANUFACTURER'S COOPERATION WILL BE TREATED WITH SIMILAR CONFIDENTIALITY.

FINALLY, I WOULD LIKE TO CLEARLY DISTINGUISH BETWEEN MYTH AND REALITY IN REGARD TO THE ISSUE OF CLASSIFICATION FOR COMMERCIAL PRODUCTS. WE HAVE GIVEN CAREFUL THOUGHT TO THIS ISSUE, AND IF YOU WILL PERMIT ME TO CAREFULLY SET ASIDE FROM THIS DISCUSSION THE ISSUE OF PUBLIC CRYPTOGRAPHY AS IT APPLIES TO COMPUTER SECURITY, WE CANNOT CONCEIVE OF A CONDITION THAT WOULD REQUIRE CLASSIFICATION OF COMMERCIALLY-DEVELOPED COMPUTER SOFTWARE OR HARDWARE SYSTEMS. FURTHERMORE, IT IS CLEAR THAT TO DO SO WOULD SEVERELY IMPAIR THE EFFECTIVENESS OF THE CENTER. AFTER ALL, WHAT MANUFACTURER WOULD COOPERATE IN THE EVALUATION OF HIS PRODUCT, IF THIS COULD POSSIBLY LEAD TO CLASSIFICATION THAT WOULD RESTRICT HIS SALE OF THAT PRODUCT?

NOW LEST I BE MISUNDERSTOOD, IT IS CONCEIVABLE THAT A PARTICULAR DOD COPY OF SUCH A PRODUCT MIGHT BE CONTROLLED AS CLASSIFIED TO PREVENT MALICIOUS TAMPERING WHILE BEING TRANSPORTED; SIMILARLY, SPECIFIC VULNERABILITIES IN THE CONTEXT OF A PARTICULAR DOD APPLICATION MIGHT BE CLASSIFIED. BUT THE IMPORTANT THING IS THAT NONE OF THESE SORT OF CLASSIFICATION ACTIONS WOULD IN ANY WAY RESTRICT THE DISTRIBUTION OF THIS PRODUCT IN THE PRIVATE SECTOR.

IN SUMMARY, LET ME SAY THAT WE HAVE A BIG JOB HERE. THIS IS A SERIOUS UNDERTAKING WHICH WILL TAKE SUBSTANTIAL RESOURCES, SMART PEOPLE AND LOTS OF HARD WORK. THE THREAT IS A REAL ONE; MADE MORE PRESSING BY THE VERY OPENNESS OF OUR SOCIETY AND RELATIVELY EASY TARGET WE REPRESENT. SECURITY CONTROLS MUST BE AS EFFECTIVE AS WE CAN HELP MAKE THEM WITHOUT SERIOUSLY INTERFERING WITH THE FUNDAMENTAL PURPOSE FOR WHICH THE SYSTEMS ARE ACQUIRED. TO MEET THESE OBJECTIVES, WE WILL AGGRESSIVELY PURSUE WELL-FOCUSED RESEARCH AND DEVELOPMENT TO PROVIDE IMPROVED TECHNOLOGY, AND WE WILL STIMULATE EFFECTIVE USE OF THE TECHNOLOGY WE ALREADY HAVE. TO FURTHER PROVOKE COMMERCIAL DEVELOPMENT, WE WILL INSIST THAT THE SYSTEMS WE BUY INCLUDE THOSE ACHIEVABLE SECURITY CAPABILITIES THAT WE NEED.

FINALLY, I WANT TO EMPHASIZE THAT THE SUCCESS OF THE COMPUTER SECURITY CENTER WILL REQUIRE THE CLOSEST INTERACTION WITH INDUSTRY, AND ALTHOUGH WE EMPHASIZE THE FREE AND OPEN EXCHANGE OF INFORMATION, WE WILL RESPECT THEIR PROPRIETARY RIGHTS. I MIGHT ADD THAT THIS CLOSE INTERACTION INCLUDES OTHER ELEMENTS OF THE TECHNOLOGY COMMUNITY--THE UNIVERSITIES, TECHNICAL INSTITUTES AND PROFESSIONAL ASSOCIATIONS SUCH AS YOU. AGAIN, MY THANKS TO YOU FOR THE OPPORTUNITY TO PRESENT MY VIEWS ON THIS SUBJECT AND FOR YOUR ATTENTION THIS MORNING.



ROUTING AND RECORD SHEET

STAT SUBJECT: (Optional) [redacted] - Secure Acquisition of Agency ADP Systems STAT

STAT FROM: [redacted]
Assistant General Counsel
STAT [redacted]

EXTENSION | NO.

DATE: 23 October 1981

TO: (Officer designation, room number, and building)	DATE RECEIVED	DATE FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
STAT 1. C/PMS/OL STAT [redacted]	23 OCT 1981			[redacted]
2.				
3.				
4.				
STAT 5.				
6.				
7.				
8. STAT				
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Attached is a more sophisticated version of an Agency regulation dealing with secure acquisition of Agency ADP systems, taking into consideration my earlier thoughts and material contained in the policy alternative working paper submitted by [redacted] dated 2 October 1981.

We are continuing to work on the preparation of a contract clause which could be inserted in Agency contracts and should have that available for distribution at the next task force meeting.

[redacted]

FORM 1-79 610 USE PREVIOUS EDITIONS

Next 1 Page(s) In Document Denied